

**FIG.1**  
PRIOR ART

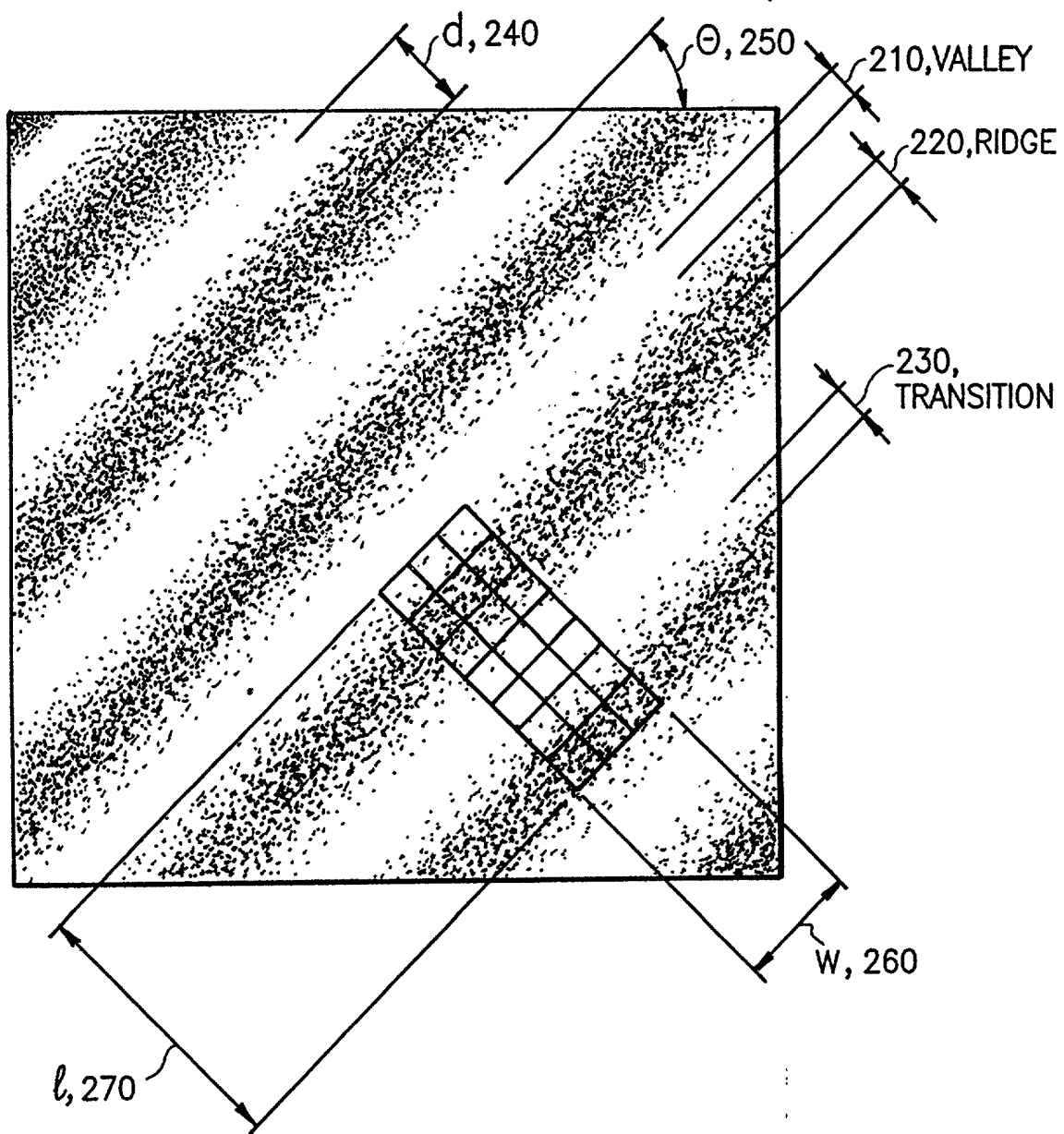
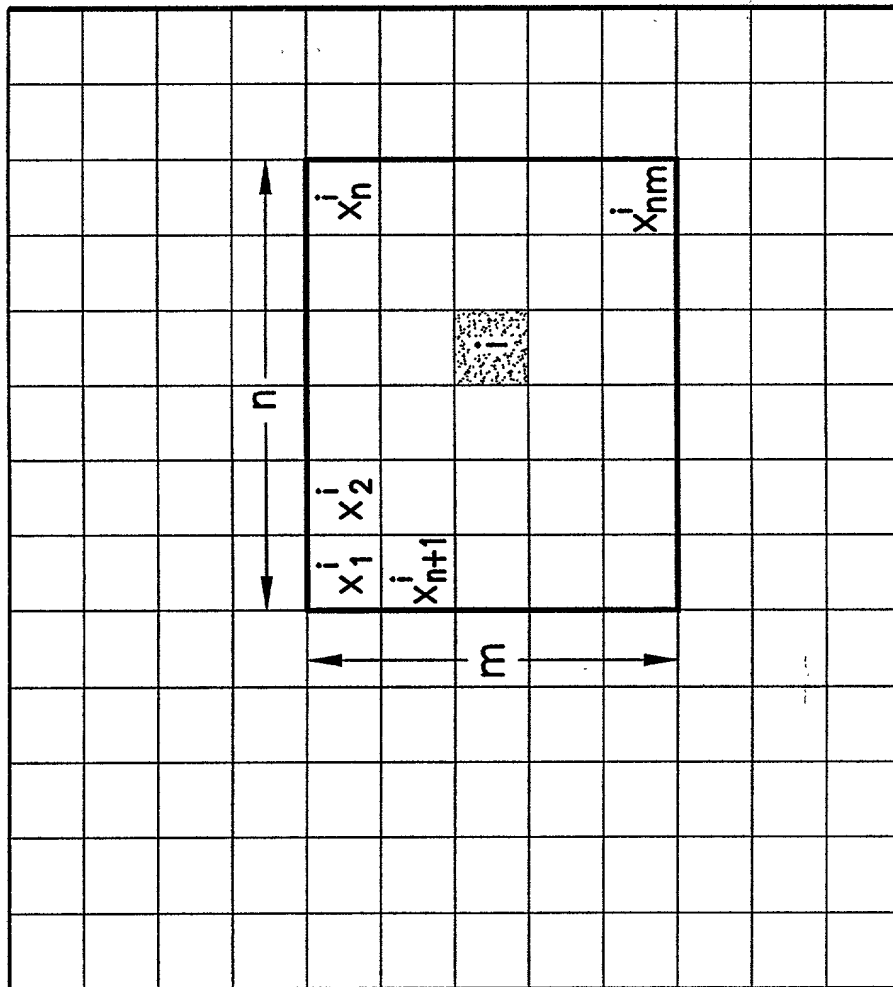
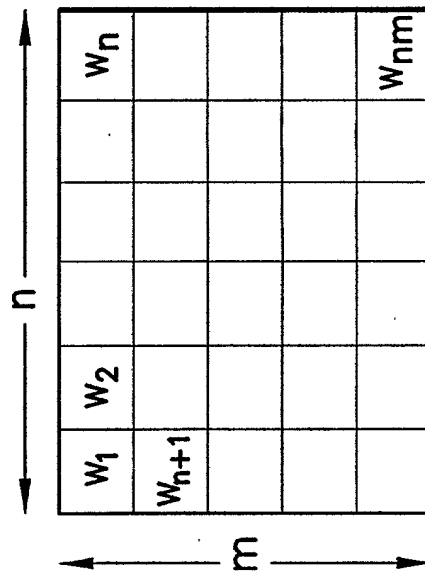


FIG.2

310



320



FINGERPRINT SUBREGION

FILTER WEIGHTS

FIG.3

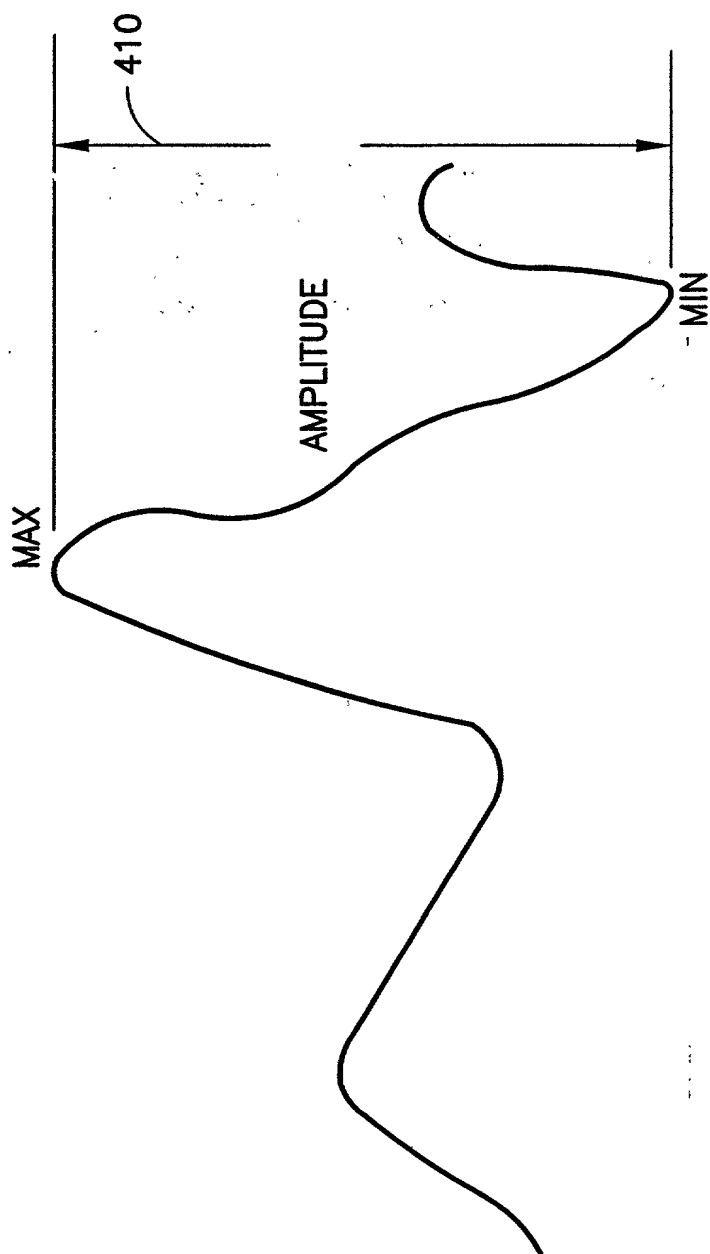


FIG.4



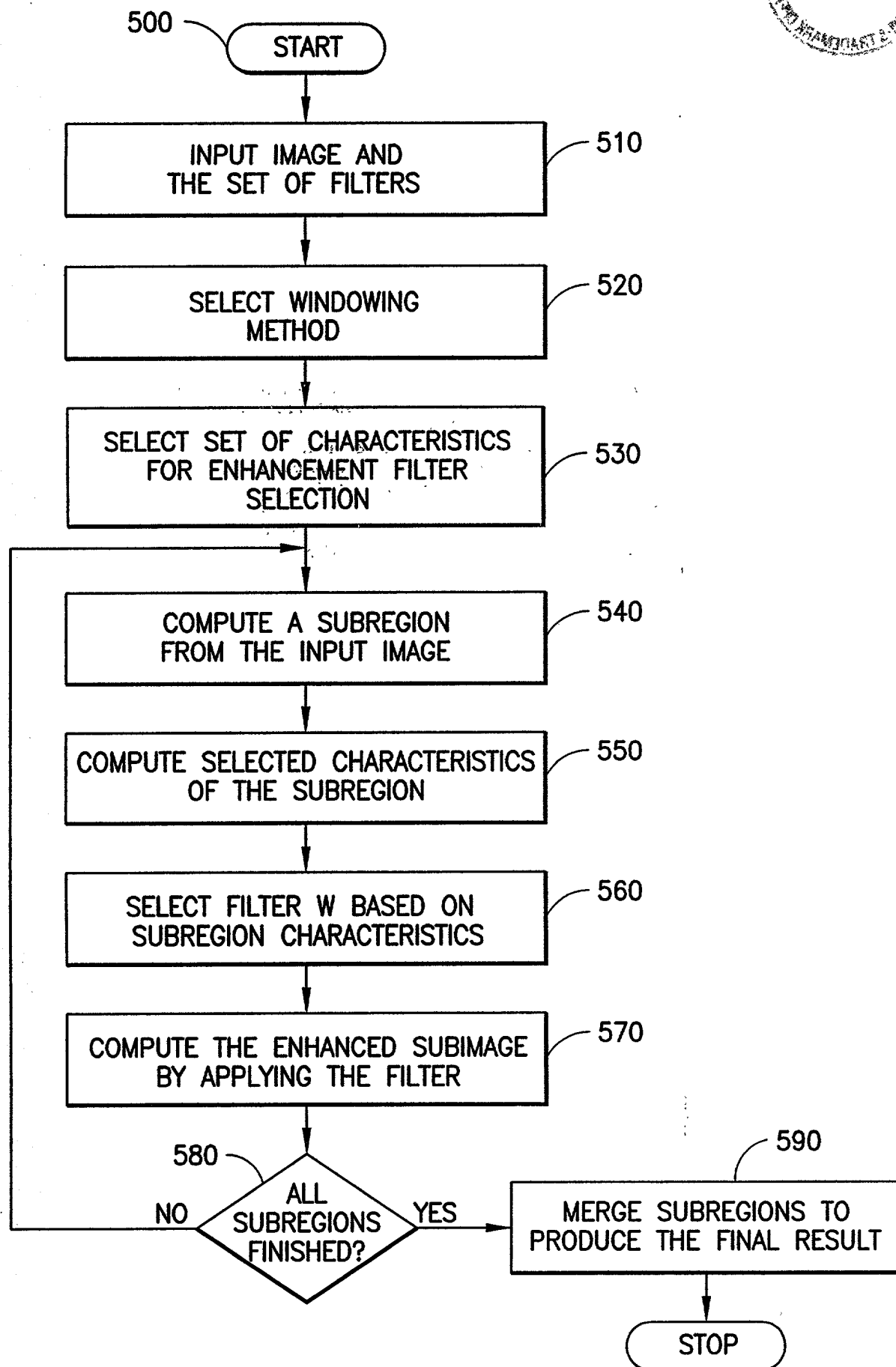


FIG.5

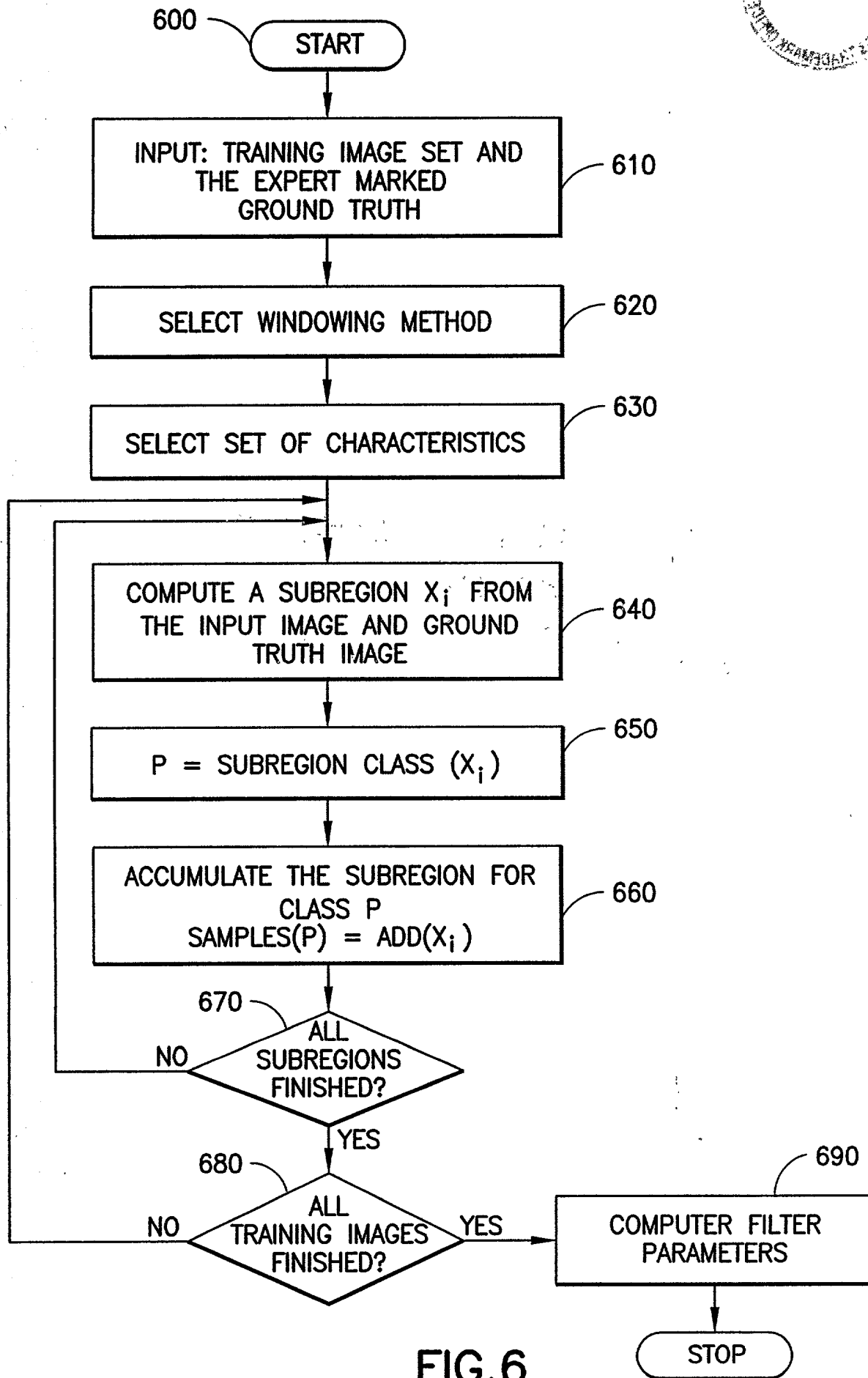


FIG. 6

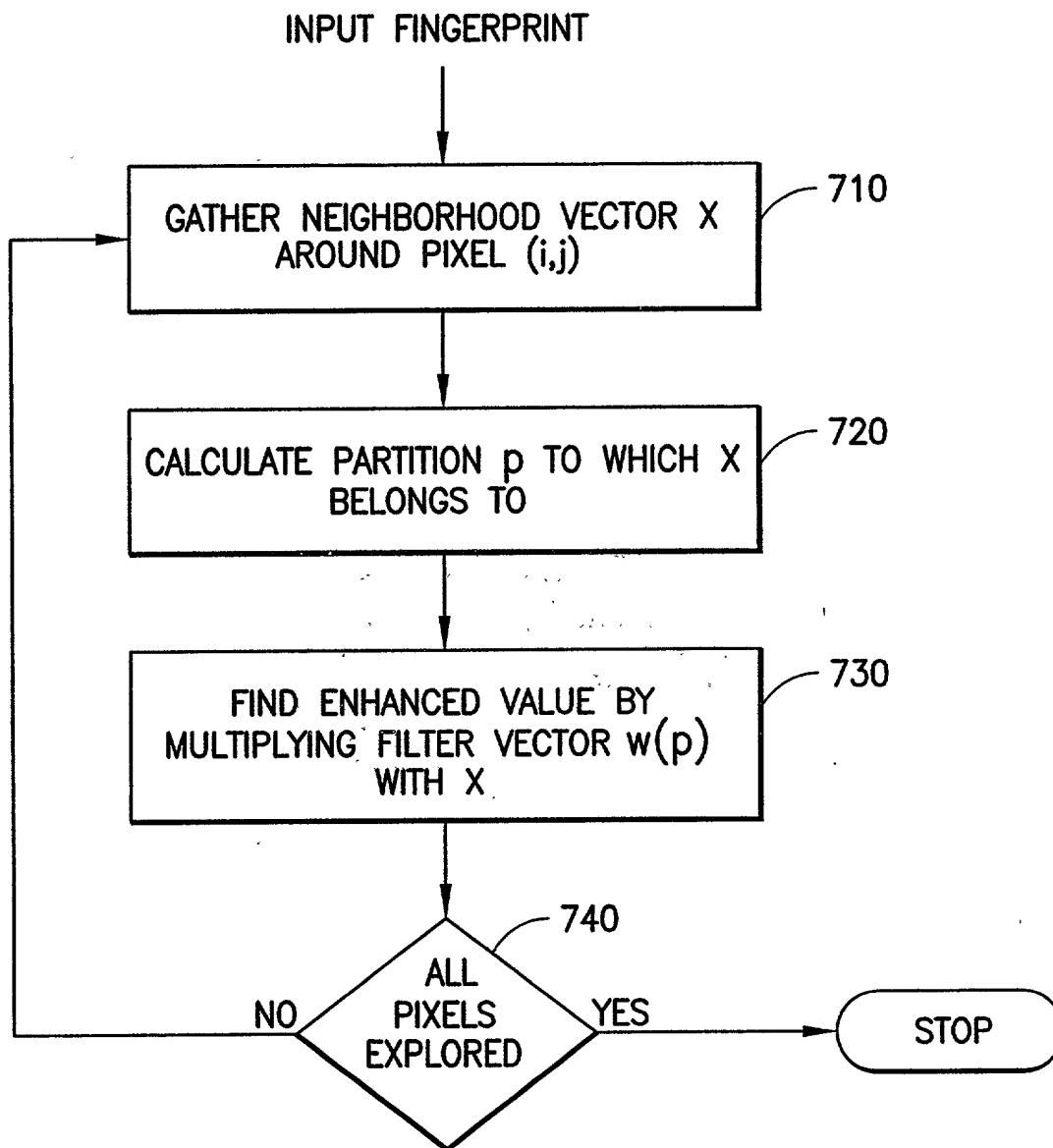


FIG.7

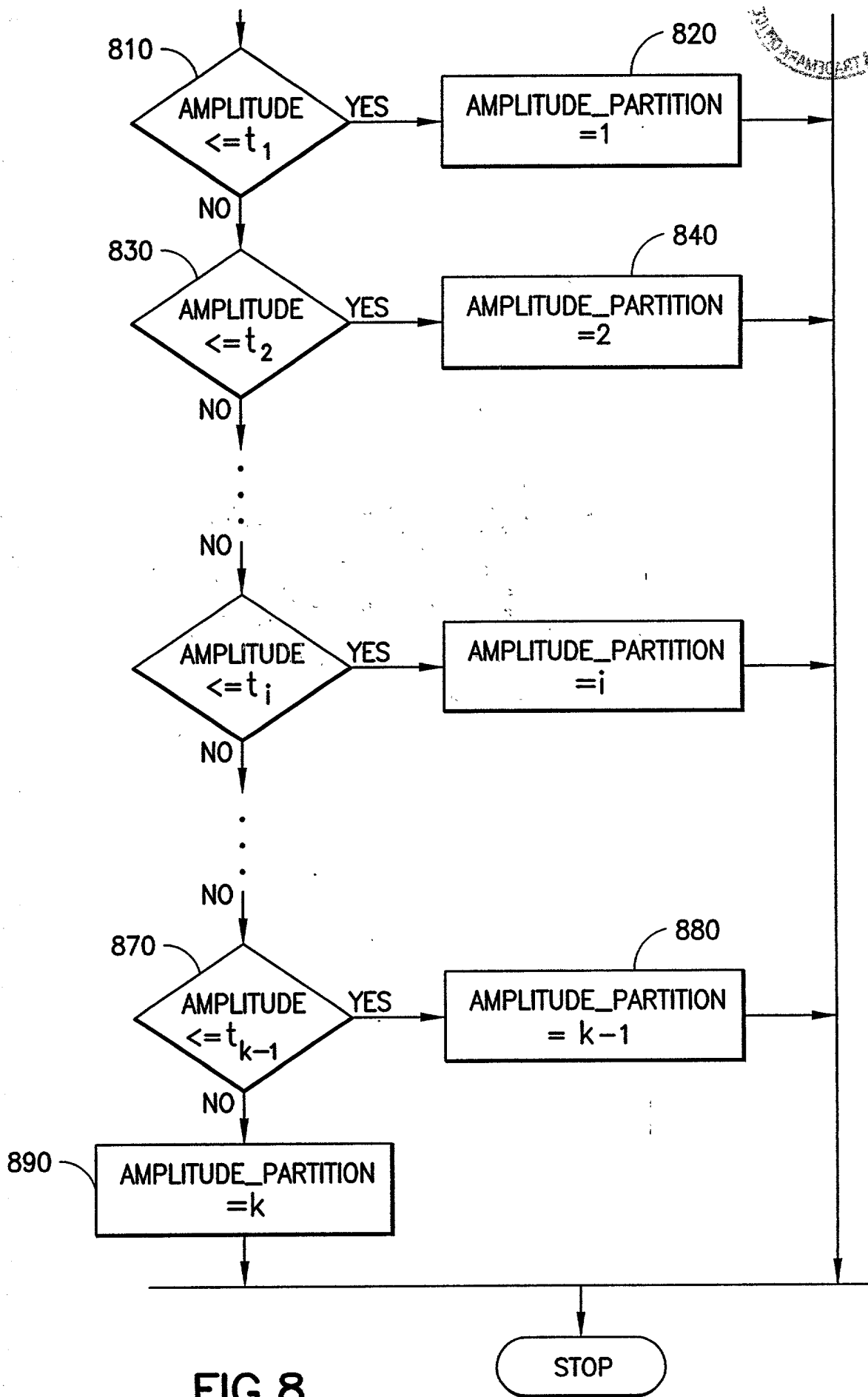
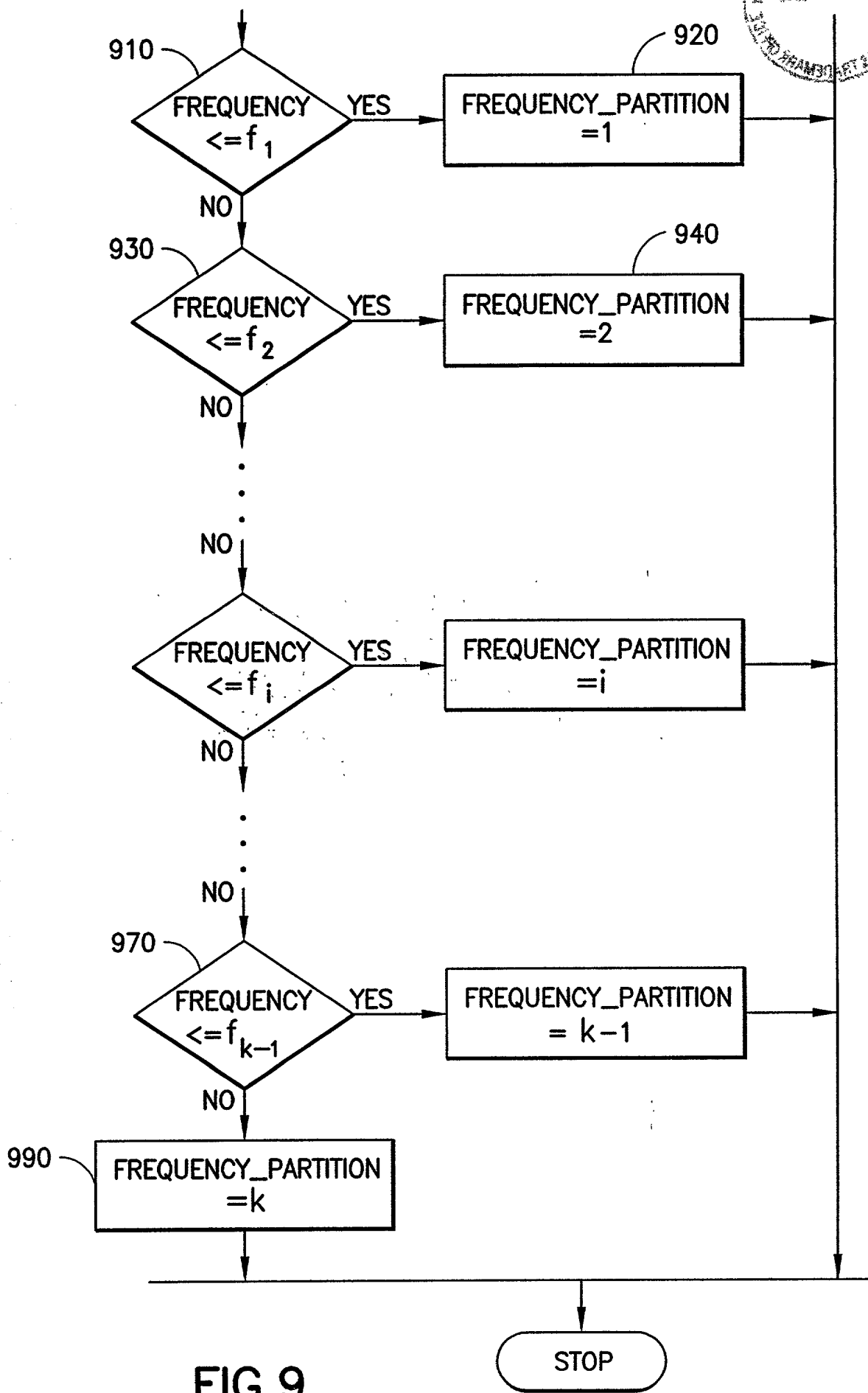


FIG.8





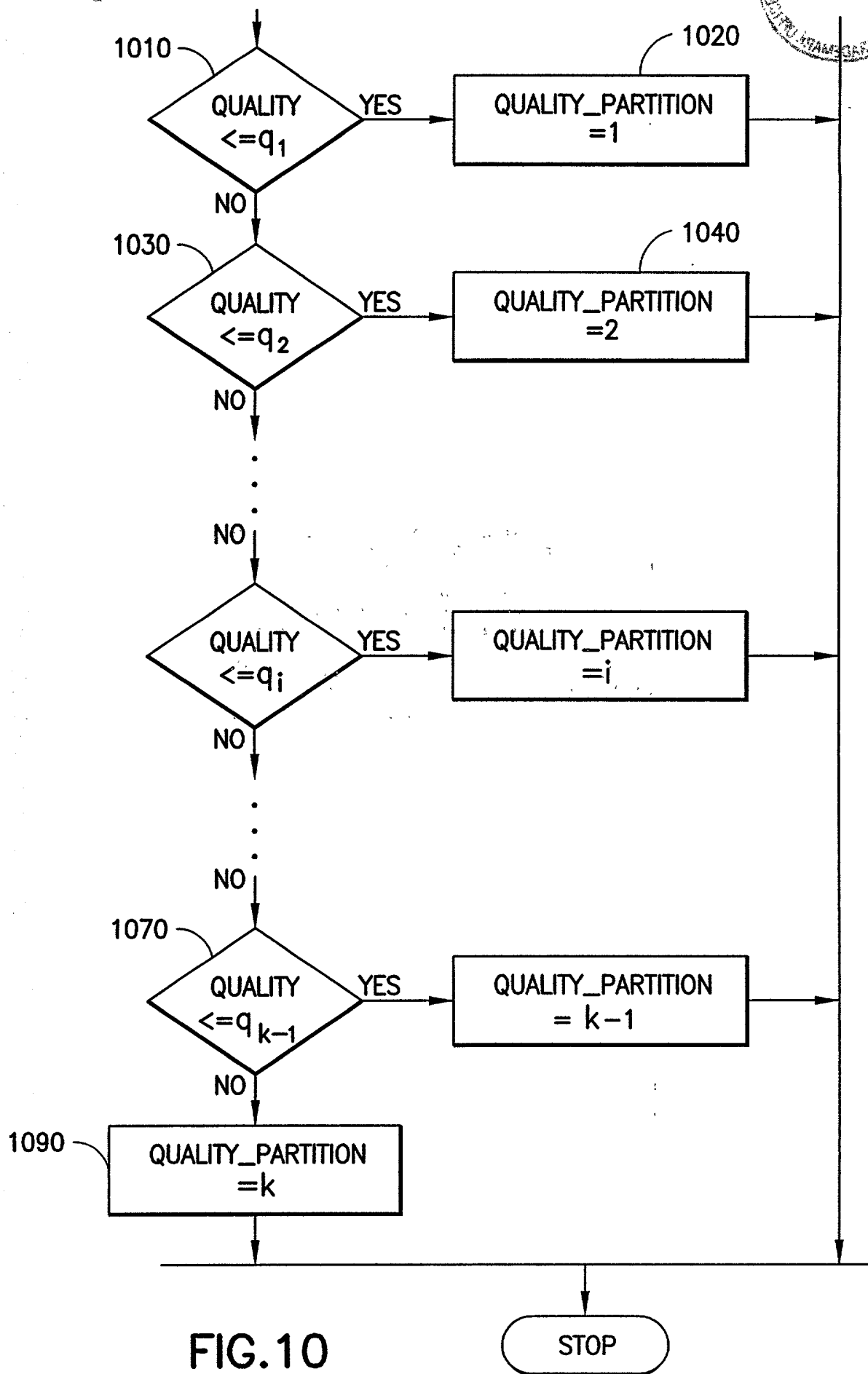


FIG.10

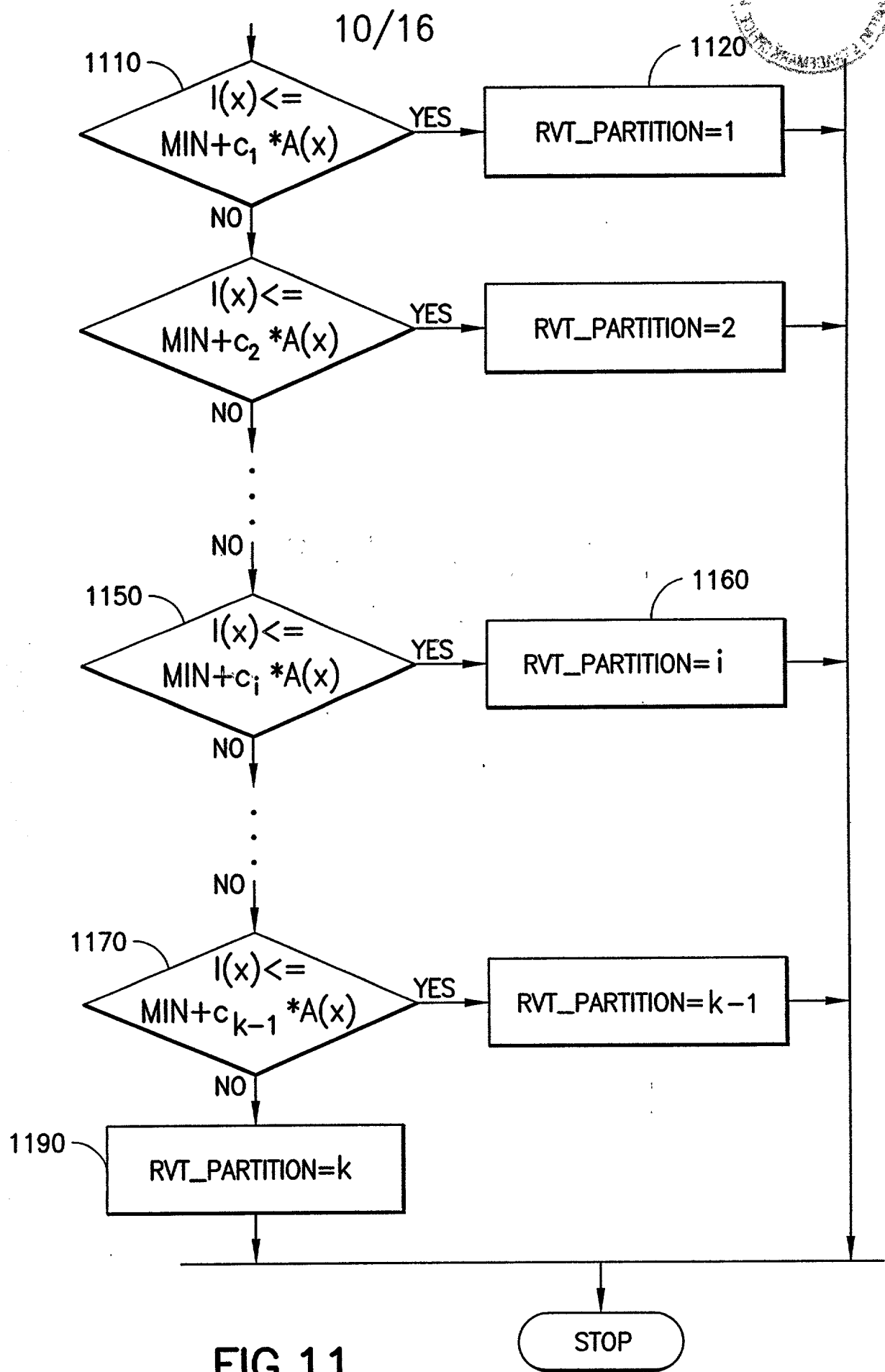


FIG. 11

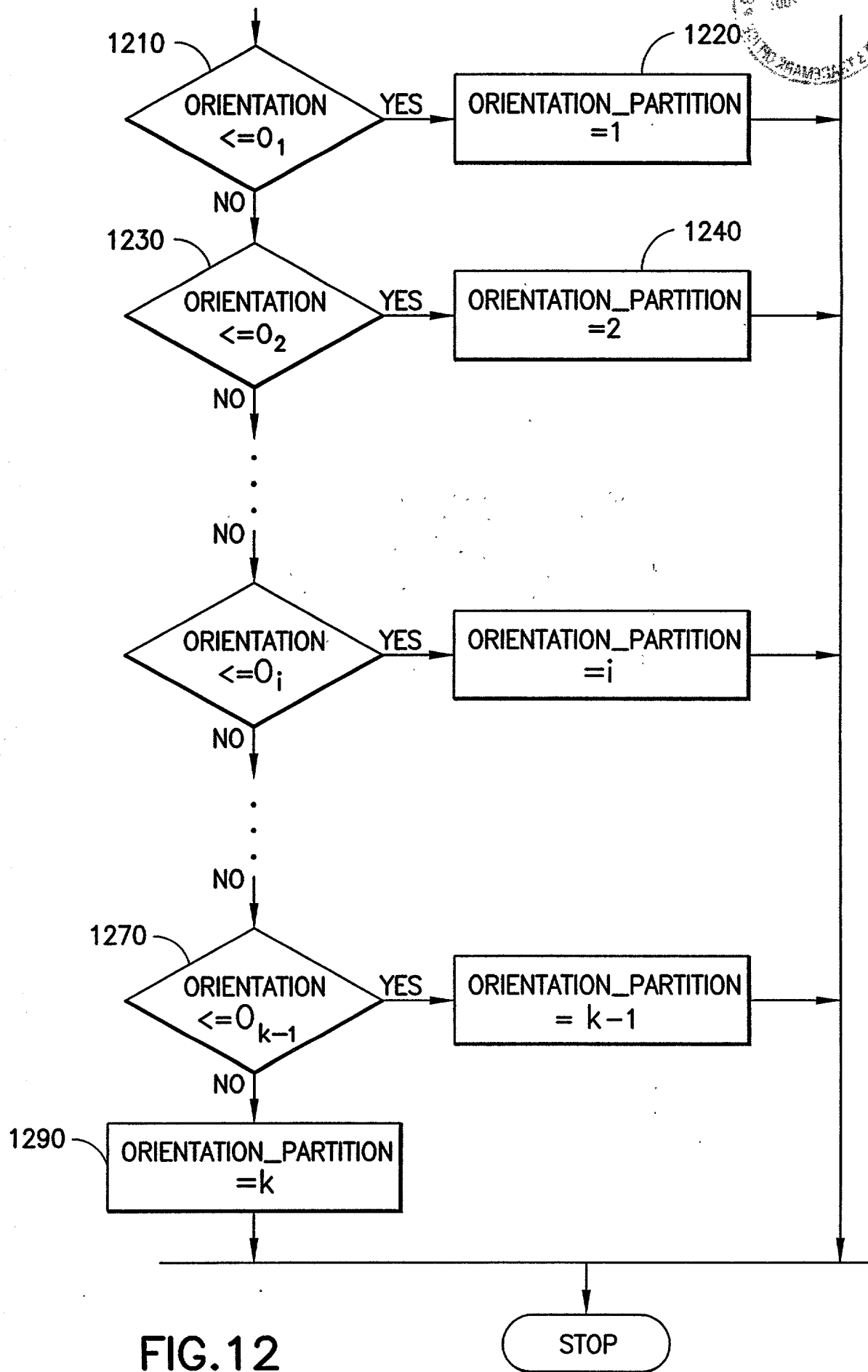


FIG. 12

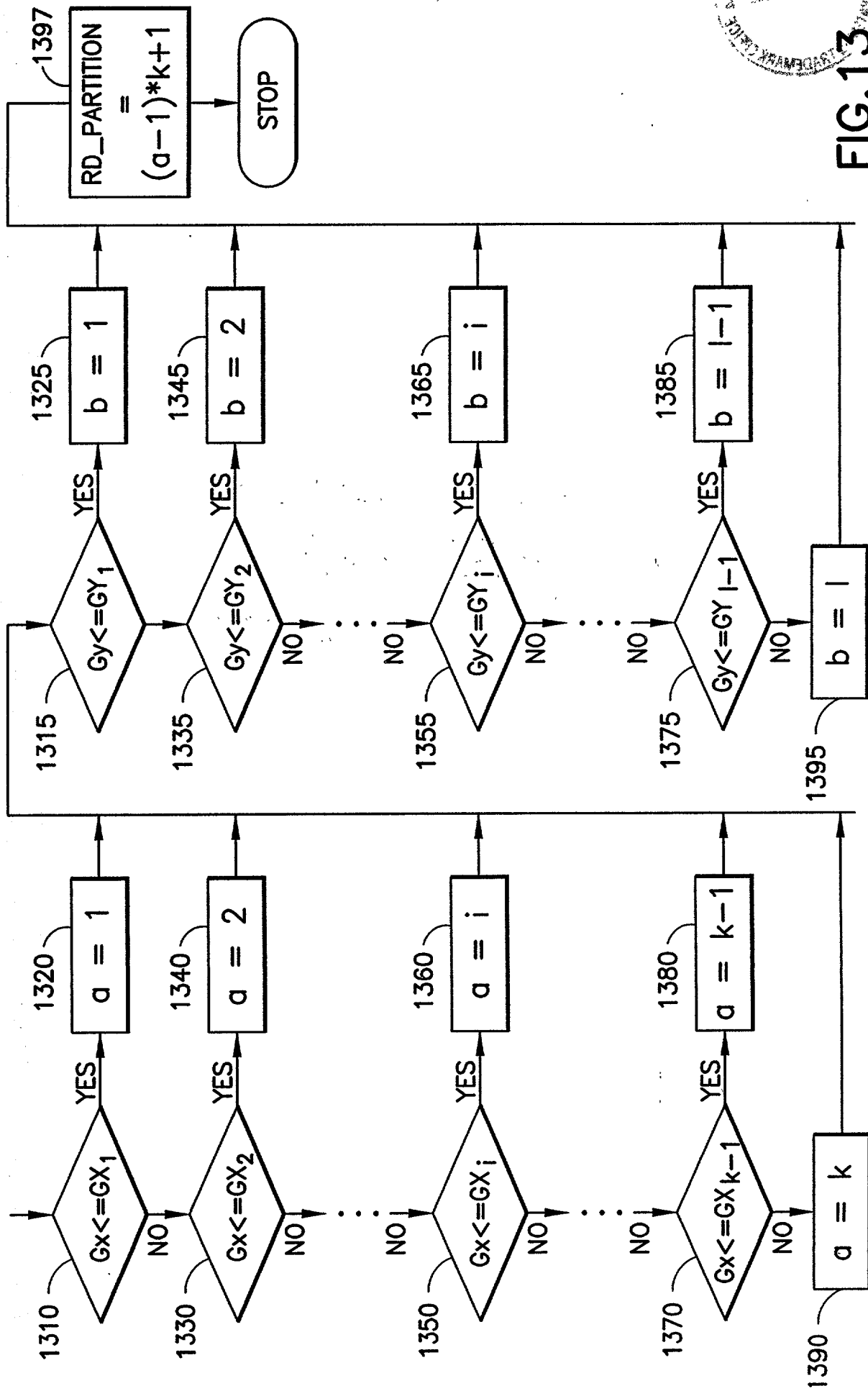


FIG. 13

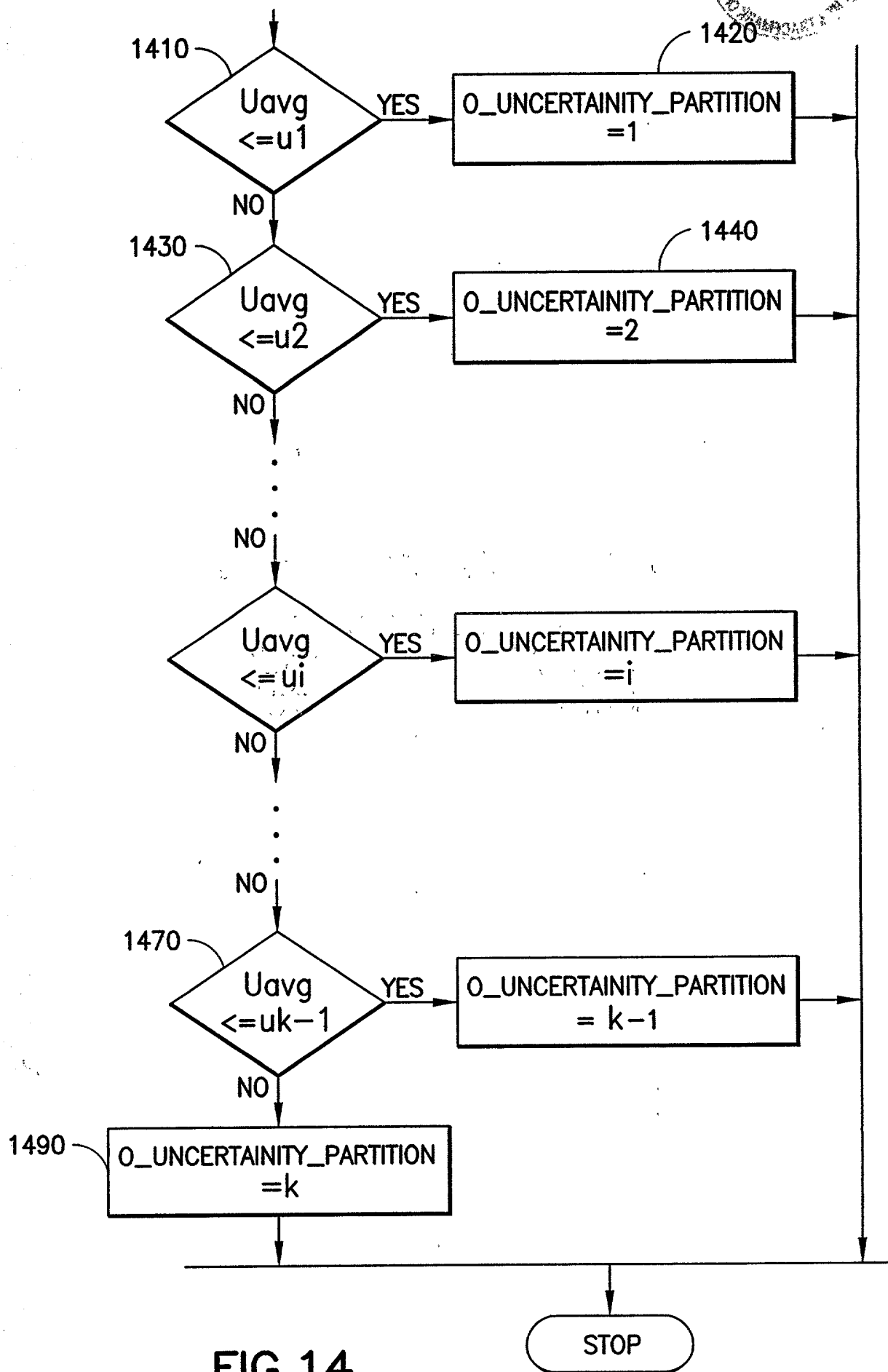


FIG. 14

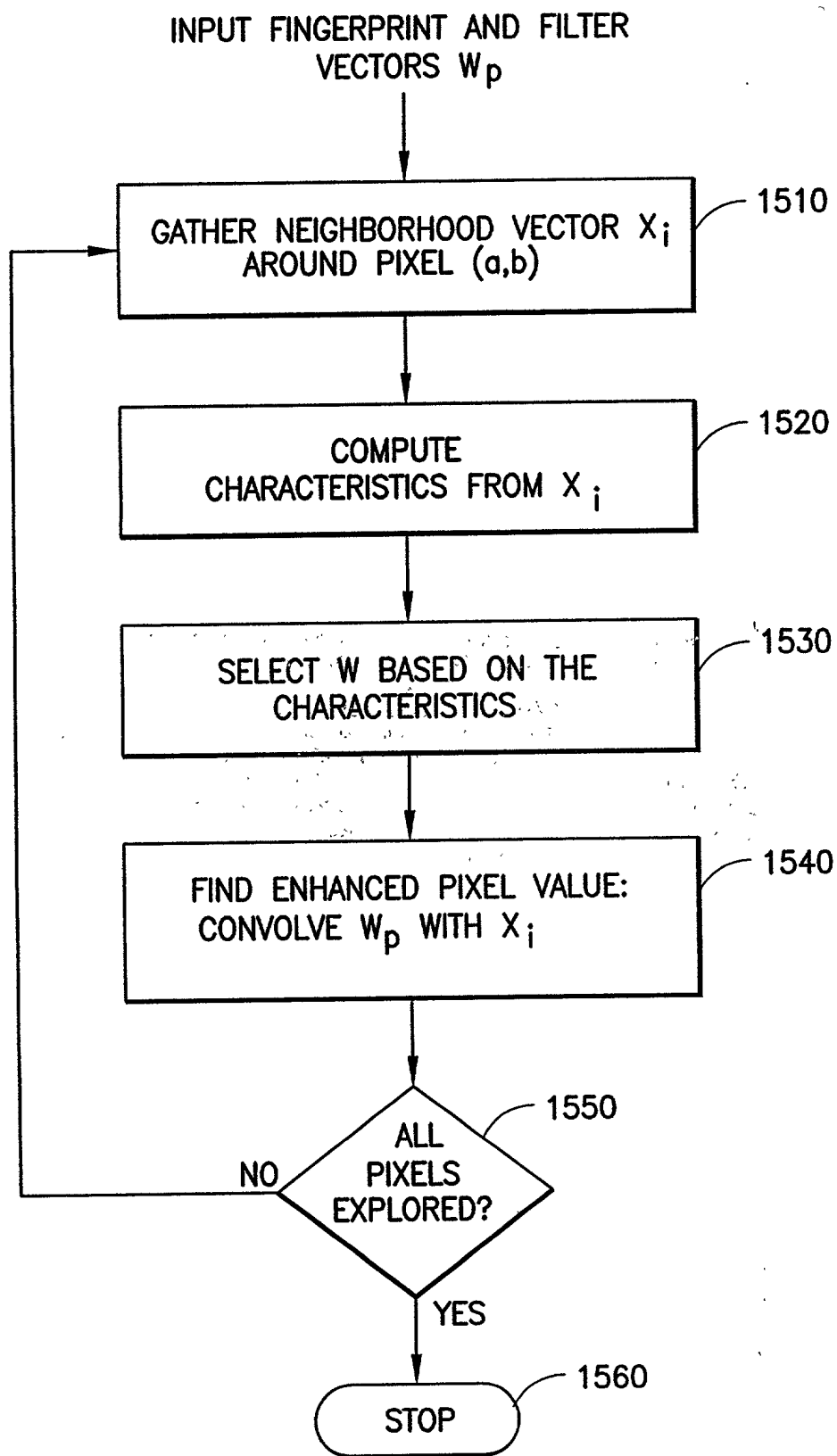


FIG.15

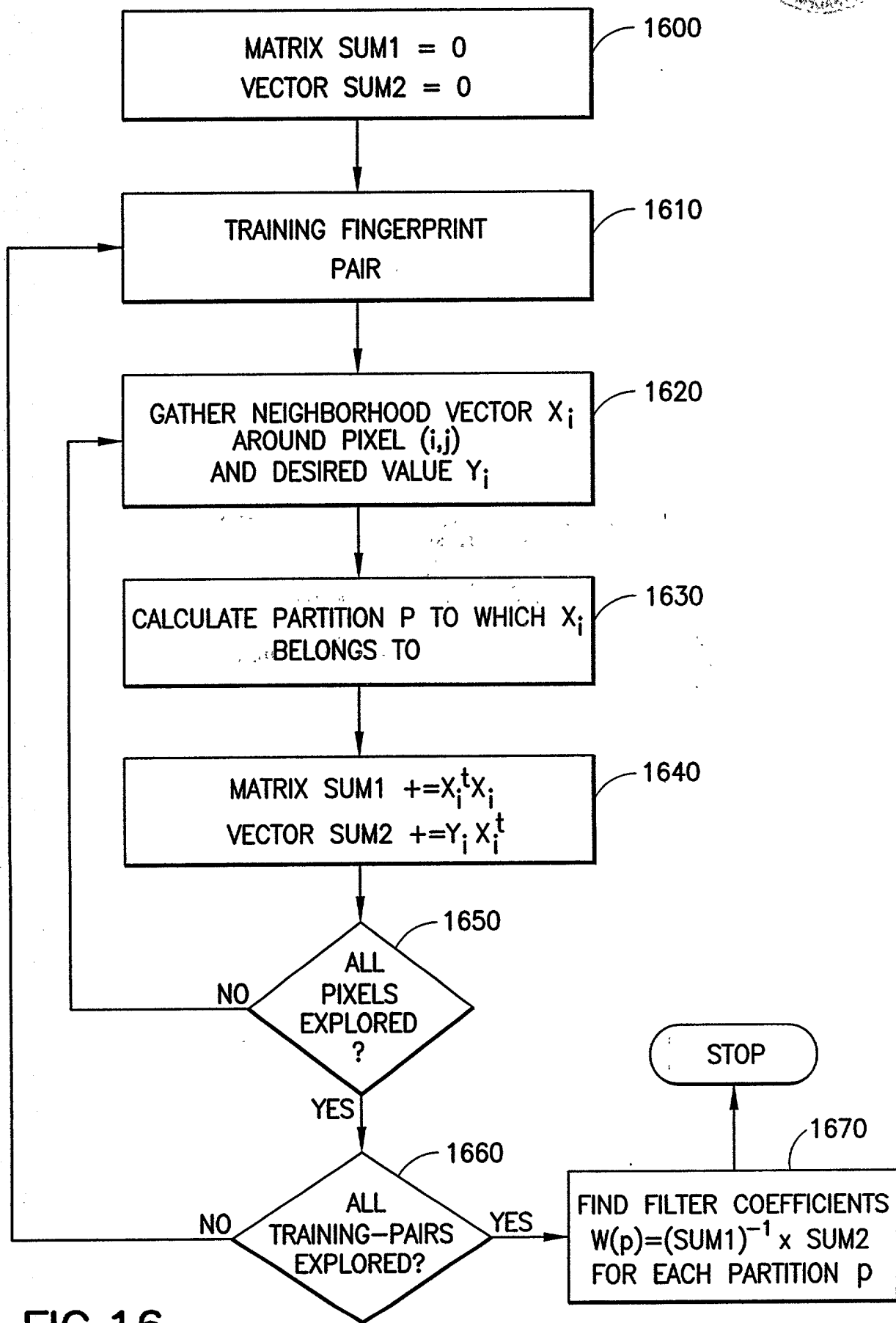


FIG.16



2005 5 0 HAI  
2005 5 0 HAI  
2005 5 0 HAI

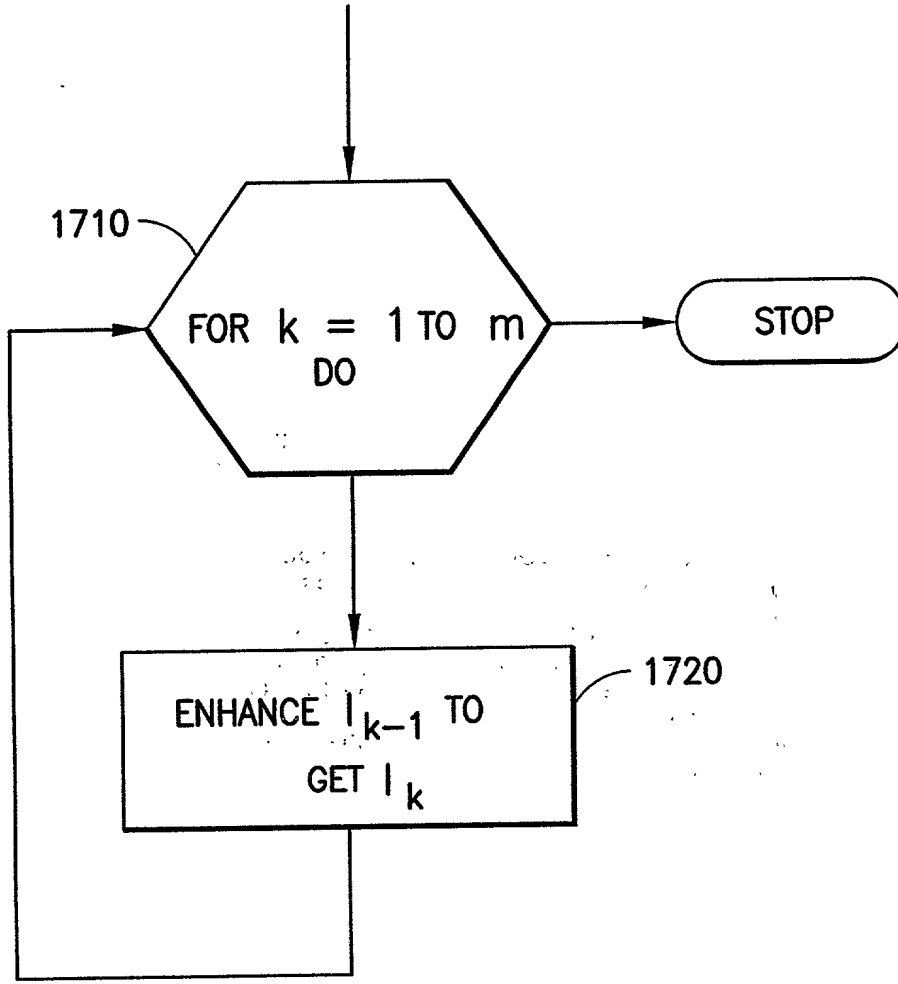


FIG.17